

1. A system for treating water in a pond to reduce particulate matter and nutrient level, said system including;

a pond for containing water to be treated;

a treatment or wetlands zone associated with said pond where water to be treated is directed and from which treated water exits;

said treatment zone including facultative bacteria, substrate material for the bacteria, nutrient level reducing vegetation and a treatment apparatus;

said treatment apparatus comprising;

a generally vertically disposed hollow and cylindrical stack formation which extends vertically within said zone and defines at least one coupling construction;

at least one elongated water disbursing module which is generally horizontally disposed and positioned below substrate material, nutrient level reducing vegetation and bacteria, having an inlet end for receiving water to be treated, an outlet end construction to couple to the stack coupling construction, a particulate and sediment receiving bottom between the ends and an upper surface joined to the bottom and ends which surface defines a plurality of water exit apertures, all of which define a passageway between the ends;

said inlet end defining an inlet construction which is substantially smaller than the passageway so as to promote separation of particulate matter and deposition of particulate matter on said disbursing module bottom.

2. A system as in claim 1 wherein said pond is a decorative landscape pond and said a wetland zone is a pond separate from the decorative pond.

3. A system as in claim 2 wherein the wetlands pond is at a higher elevation than the decorative pond and there is provided a path for treated water to exit the treatment pond and flow to the decorative pond.

5 4. A system as in claim 3 wherein the path is a waterfall.

5. A system as in claim 1 wherein said pond is a decorative landscape pond and said wetlands zone is within said pond.

10 6. A system as in claim 5 wherein said wetlands zone and decorative pond are unitary.

7. A system as in claim 1 wherein the wetlands zone includes a bottom and a top surface and said stack extends from the bottom to and above the top.

15 8. A system as in claim 1 wherein said substrate is gravel which defines a gravel bed comprises a plurality of large size gravel which contacts the disbursing module, a plurality of medium sized gravel upon and in contact with large size gravel and small size gravel upon and in contact with the medium size gravel so that water exiting the exit  
20 apertures of the disbursing module flows through the large, medium and small size gravel.

9. A system as in claim 7 wherein the bottom of the wetlands pond is sloped toward the center of the pond and there is provided in the pond bottom along the center thereof an elongated trough which is adapted to receive the elongated disbursing module,

with the flat side directed toward the bottom of the trough and the arcuate top with exit apertures directed toward the top surface so that water entering the disbursement module at the inlet end flows within the element and exits via the water exit apertures.

5           10.     A system as in claim 1 wherein there is further provided a cover for sealing engagement with the stack.

10           11.     A system as in claim 1 wherein there is provided a second elongated water disbursing module coupled to said at least one disbursing module so as to form a longer passageway.

          12.     A system as in claim 1 wherein the module and the stack are at substantially right angles to one another.

15           13     A system as in claim 1 wherein the disbursing module bottom is substantially flat.

          14.     A system as in claim 1 wherein there are provided on the stack four (4) coupling formations about the periphery of the stack at about 90 degree angles from each other and four (4) disbursing modules each coupled to a stack coupling.

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          15.     A method of treating water in a pond to reduce the nutrient level and reduce the particulate matter level in the water which comprises the steps of;

                  providing a pond;

providing a wetlands zone associated with the pond which includes nutrient level reducing vegetation, facultative bacteria, substrate material for the bacteria, and a treatment apparatus which includes a stack and a disbursing module with a plurality of exit apertures;

5 receiving water to be treated in the module;

causing water to be treated to flow through the module so as to cause particulate matter to deposit from the water into the module whereby particulate and sediment matter within the water separates from the water;

10 causing water to exit the exit apertures and flow through the substrate and be exposed to the nutrient level reducing vegetation and bacteria;

causing water which has been treated to exit the wetlands zone and flow to the pond;

15 whereby, the nutrient level and particulate level of the water exiting the wetlands zone pond is less than the water entering the wetlands zone and the clarity of water is increased.

16. A method as in claim 15 wherein water within the module is at a substantially lower pressure and velocity as compared to the pressure and velocity of water received by the module.

20 17. A method as in claim 15 wherein the volume of water flow in the conduit and the disbursing module is substantially similar but both the water pressure and the water velocity in the module is substantially less than in the conduit.

18. A water treatment apparatus for treating pond water and constructed to be positioned in a pond zone having a bottom and a top surface, the treatment apparatus including;

a hollow cylindrical stack formation to be supported on the wetlands zone bottom and extend through the top surface and said stack having at least one coupling formation; and

at least one (1) elongated disbursing module having a bottom, an arcuate upper surface constructed joined to the bottom and constructed to define a plurality of water exit apertures, an inlet end for receiving water and an outlet end constructed to engage to the stack coupling formation, said module constructed to be positioned on the wetlands zone bottom.

19. An apparatus as in claim 18 wherein the disbursing module bottom is substantially flat.

20. An apparatus as in claim 18 wherein a conduit is provided to the inlet end and the module is substantially larger than the inlet end.